

ATTACHMENT B

Results of Background Phase

Air Monitoring Program
130 Liberty Street Deconstruction Project

Site Address: 130 Liberty Street
New York, NY 10006

Client: Lower Manhattan Development Corporation
Address: One Liberty Plaza, 20th Floor
New York, NY 10006

SUMMARY OF BACKGROUND DATA

Collection Dates: 8/19/2005 - 9/2/2005

Units:	Asbestos AHERA S/mm2	Asbestos PCME f/cm3	Dioxin TEQ pg/m3	Total PCBs ug/m3	PAHs (BAP-equivalent) ng/m3
Firehouse "10 House" Roof (roof-top)					
8/19/2005	< 21	< 0.00062	0.0315	< 0.194	< 7.0
8/20/2005	< 21	< 0.00059	0.0502	< 0.194	< 7.0
8/21/2005	< 21	< 0.00059	0.0487	< 0.208	< 7.8
8/22/2005	< 21	< 0.00073	0.0301	< 0.197	< 7.0
8/23/2005	< 19	< 0.00079	0.0351	< 0.200	< 7.3
8/24/2005	< 19	< 0.00079	0.0457	< 0.0977	< 7.0
8/25/2005	< 19	< 0.00086	0.0426	< 0.0989	< 7.5
8/26/2005	< 19	< 0.00086	0.0441	< 0.0995	< 7.5
8/27/2005	< 19	< 0.00086	0.0482	< 0.0997	< 7.8
8/28/2005	< 19	< 0.00086	0.0499	< 0.0995	< 7.3
8/29/2005	< 19	< 0.00086	0.0541	< 0.0972	< 7.3
8/30/2005	< 19	< 0.00079	0.0477	< 0.0972	< 7.3
8/31/2005	< 19	< 0.00079	0.043	< 0.0972	< 7.3
9/1/2005	< 19	< 0.00086	0.0278	< 0.0972	< 7.8
9/2/2005	< 13	< 0.00079	0.0489	< 0.0972	< 7.5
Northeast Area (street-level Greenwich and Cedar)					
8/19/2005	< 21	< 0.00059	0.0270	< 0.200	< 6.8
8/20/2005	< 21	< 0.00059	0.0255	< 0.200	< 7.3
8/21/2005	< 21	< 0.00062	0.0694	< 0.198	< 7.3
8/22/2005	< 19	< 0.00073	0.0373	< 0.194	< 7.3
Comparison Criteria					
Target Air Quality Levels:	<u>NA</u>	<u>0.0009</u>	<u>0.25</u>	<u>0.12</u>	<u>34</u>
USEPA Site Specific Trigger Levels:	<u>70</u>	<u>NA</u>	<u>25</u>	<u>12</u>	<u>3,400</u>

Footnotes:

Shaded values indicate an exceedance of one or more comparison criteria.
NA - Not Applicable.

Comments:

Firehouse Roof (8/21/05): no field spike information available for dioxins and PAHs due to mislabeling of sample media.
Northwest Side (8/19/05): Dioxin TEQ data suspect due to laboratory extraction error.
Southeast Corner (8/25/05): reduced sample volume for PAH sample due to pump failure.
Total PCBs (8/19/05 - 8/23/05) exceed the Target Air Quality Level prior to EPA's direction on PCB Aroclor summation; subsequent PCB Aroclor analyses were modified by reducing the extract volume to allow for Q/Ls less than the Target Air Quality Level.

Units:	Asbestos AHERA S/mm2	Asbestos PCME f/cm3	Dioxin TEQ pg/m3	Total PCBs ug/m3	PAHs (BAP-equivalent) ng/m3
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Northeast Area (street-level Greenwich and Cedar)

8/23/2005	< 19	< 0.00079	0.0240	< 0.252	< 7.5
8/24/2005	< 19	< 0.00079	0.0563	< 0.102	< 7.8
8/25/2005	< 19	< 0.00086	0.0364	< 0.0989	< 7.3
8/26/2005	< 19	< 0.00086	0.0320	< 0.0982	< 7.5
8/27/2005	< 19	< 0.00086	0.0316	< 0.0975	< 7.5
8/28/2005	< 19	< 0.00086	0.0371	< 0.0992	< 7.5
8/29/2005	< 19	< 0.00086	0.0482	< 0.0972	< 6.8
8/30/2005	< 19	< 0.00079	0.0238	< 0.0974	< 7.0
8/31/2005	< 19	< 0.00079	0.0391	< 0.102	< 7.5
9/1/2005	< 19	< 0.00086	0.0304	< 0.0984	< 7.5
9/2/2005	< 13	< 0.00079	0.069	< 0.0972	< 7.3

Northwest Side (street-level Washington and Cedar)

8/19/2005	< 21	< 0.00059	0.170	< 0.194	< 7.3
8/20/2005	< 21	< 0.00059	0.116	< 0.198	< 7.5
8/21/2005	< 21	< 0.00059	0.141	< 0.200	< 7.5
8/22/2005	< 19	< 0.00073	0.056	< 0.198	< 7.5
8/23/2005	< 19	< 0.00079	0.0299	< 0.201	< 7.5
8/24/2005	< 19	< 0.00079	0.0395	< 0.0972	< 7.0
8/25/2005	< 19	< 0.00086	0.0383	< 0.101	< 7.3
8/26/2005	< 19	< 0.00086	0.0601	< 0.101	< 7.3
8/27/2005	< 19	< 0.00086	0.0469	< 0.099	< 7.0
8/28/2005	< 19	< 0.00086	0.0574	< 0.0972	< 7.3
8/29/2005	< 19	< 0.00086	0.138	< 0.0972	< 7.3
8/30/2005	< 19	< 0.00079	0.129	< 0.0995	< 7.3
8/31/2005	< 19	0.00079	0.148	< 0.0972	< 6.8
9/1/2005	< 19	< 0.00086	0.0426	< 0.0979	< 7.0
9/2/2005	13	< 0.00079	0.0711	< 0.0972	< 7.0

Southeast Corner (street-level Greenwich and Albany)

Comparison Criteria

Target Air Quality Levels:	<u>NA</u>	<u>0.0009</u>	<u>0.25</u>	<u>0.12</u>	<u>34</u>
USEPA Site Specific Trigger Levels:	<u>70</u>	<u>NA</u>	<u>25</u>	<u>12</u>	<u>3,400</u>

Footnotes:

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Comments:

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Northwest Side (8/19/05): Dioxin TEQ data suspect due to laboratory extraction error.
Southeast Corner (8/25/05): reduced sample volume for PAH sample due to pump failure.
Total PCBs (8/19/05 - 8/23/05) exceed the Target Air Quality Level prior to EPA's direction on PCB Aroclor summation; subsequent PCB Aroclor analyses were modified by reducing the extract volume to allow for QLS less than the Target Air Quality Level.

Units:	Asbestos AHERA S/mm2	Asbestos PCME f/cm3	Dioxin TEQ pg/m3	Total PCBs ug/m3	PAHs (BAP-equivalent) ng/m3
<u>Southeast Corner (street-level Greenwich and Albany)</u>					
8/19/2005	< 21	< 0.00059	0.0395	< 0.194	< 7.0
8/20/2005	< 21	< 0.00059	0.028	< 0.201	< 7.3
8/21/2005	< 21	< 0.00062	0.035	< 0.198	< 7.3
8/22/2005	< 19	< 0.00073	0.0485	< 0.194	< 7.0
8/23/2005	< 19	< 0.00079	0.0283	< 0.204	< 7.3
8/24/2005	< 19	< 0.00079	0.0415	< 0.102	< 7.3
8/25/2005	< 19	< 0.00086	0.0424	< 0.0999	< 21.3
8/26/2005	< 19	< 0.00086	0.0424	< 0.0978	< 7.0
8/27/2005	< 19	< 0.00086	0.0304	< 0.0981	< 7.3
8/28/2005	< 19	< 0.00086	0.0382	< 0.0988	< 7.3
8/29/2005	< 19	< 0.00086	0.0348	< 0.0972	< 7.0
8/30/2005	< 19	< 0.00079	0.0292	< 0.099	< 7.3
8/31/2005	< 19	< 0.00079	0.0281	< 0.0996	< 7.3
9/1/2005	< 19	< 0.00086	0.0297	< 0.0992	< 7.5
9/2/2005	< 13	< 0.00079	0.0534	< 0.0972	< 7.5

Southwest Corner (street-level Washington and Albany)

8/19/2005	< 21	0.00059	0.0377	< 0.194	< 7.0
8/20/2005	< 21	< 0.00059	0.0298	< 0.199	< 6.8
8/21/2005	< 21	< 0.00059	0.0342	< 0.196	< 7.3
8/22/2005	< 19	< 0.00073	0.0352	< 0.208	< 7.5
8/23/2005	< 19	< 0.00079	0.0303	< 0.279	< 7.3
8/24/2005	< 19	< 0.00079	0.0391	< 0.0997	< 7.5
8/25/2005	< 19	< 0.00086	0.0420	< 0.0978	< 7.0
8/26/2005	< 19	< 0.00086	0.0436	< 0.0993	< 7.3
8/27/2005	< 19	< 0.00086	0.0256	< 0.0986	< 7.3
8/28/2005	< 19	< 0.00086	0.0311	< 0.0982	< 6.8
8/29/2005	< 19	< 0.00086	0.0351	< 0.0976	< 7.0
8/30/2005	< 19	< 0.00079	0.0284	< 0.0994	< 7.0

Comparison Criteria

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USEPA Site Specific Trigger Levels:	<u>70</u>	<u>NA</u>	<u>25</u>	<u>12</u>	<u>3,400</u>

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Southwest Corner (street-level Washington and Albany)					
8/31/2005	< 19	< 0.00079	0.0452	< 0.0998	< 7.3
9/1/2005	< 19	< 0.00086	0.0290	< 0.101	< 7.3
9/2/2005	< 13	< 0.00079	0.0403	< 0.0972	< 7.0

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Client: Lower Manhattan Development Corporation
Address: One Liberty Plaza, 20th Floor
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SUMMARY OF BACKGROUND DATA

Collection Dates: 8/19/2005 - 9/2/2005

	Antimony	Barium	Beryllium	Cadmium	Chromium (Total)	Copper	Lead	Manganese	Mercury (Total)	Nickel	Zinc	Silica
Units:	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ug/m3
Firehouse #10 Roof (roof-top)												
8/19/2005	3.17	< 67.2	< 0.672	< 0.672	< 6.72	46	14.7	19.3	< 6.2	5.94	64.7	< 5
8/20/2005	1.75	< 67.2	< 0.672	< 0.672	< 6.72	36.8	11	14.3	~ 7.2	4.59	38.6	< 5
8/21/2005	1.88	< 72.1	< 0.721	< 0.721	< 7.21	29.3	7.33	9.95	~ 16.3	4.21	33.1	< 5
8/22/2005	1.78	< 68.1	< 0.681	< 0.681	< 6.81	30.6	11	15.5	~ 11.4	< 3.4	36.9	< 5
8/23/2005	2.29	< 69.8	< 0.698	< 0.698	< 6.98	42.2	13.5	17.2	19.7	8.88	42.1	< 5
8/24/2005	2.5	< 67	< 0.67	< 0.67	< 6.7	24	7.5	12	< 6.3	4.9	30	< 5
8/25/2005	2.2	< 68	< 0.68	< 0.68	< 6.8	44	21	20	20	8.9	77	< 5
8/26/2005	2.14	< 68.7	< 0.687	< 0.687	< 6.87	55	17.6	26	~ 18.8	7.99	61.4	< 5
8/27/2005	1.73	< 68.7	< 0.687	< 0.687	< 6.87	38.4	11.5	17.2	~ 14.4	< 3.43	41.3	< 5
8/28/2005	1.53	< 69.0	< 0.690	< 0.690	< 6.90	44.7	8.81	16.9	~ 11.3	4.16	40.6	< 5
8/29/2005	2.6	< 67.8	< 0.68	< 0.68	< 6.8	52.3	20.6	25.6	21.8	5.4	94.1	< 5
8/30/2005	2.4	< 65.3	< 0.65	< 0.65	< 6.5	53.1	23.0	25.6	~ 13	7.2	77	< 5
8/31/2005	1.5	< 68.2	< 0.68	< 0.68	< 6.8	57.4	19.5	24.8	~ 16.3	6.5	69.8	< 5
9/1/2005	3.2	< 67.3	< 0.67	< 0.67	< 6.7	82.2	12.2	16	~ 15.5	3.4	43.2	< 5
9/2/2005	1.6	< 66.2	< 0.66	< 0.66	< 6.6	85.5	18.7	21.5	< 10.9	3.4	54.8	< 5

Northeast Area (street-level)

8/19/2005	3.16	< 69.7	< 0.697	< 0.697	< 6.97	83.7	13.8	16.6	~ 8.1	6.09	81.4	8
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Comparison Criteria

Target Air Quality Levels:	<u>5,000</u>	<u>5,000</u>	<u>20</u>	<u>40</u>	<u>600</u>	<u>10,000</u>	<u>1,500</u>	<u>500</u>	<u>300</u>	<u>200</u>	<u>16,000</u>	<u>10</u>
USEPA Site Specific Trigger Levels:	<u>14,000</u>	<u>5,000</u>	<u>200</u>	<u>2,000</u>	<u>600</u>	<u>100,000</u>	<u>5,000</u>	<u>500</u>	<u>3,000</u>	<u>28,000</u>	<u>160,000</u>	<u>10</u>

Footnotes:

Shaded values indicate an exceedance of one or more comparison criteria. The USEPA Site Specific Trigger Level (600 ng/m3) for Hexavalent chromium is used for Chromium (Total). Respirable Silica (crystalline) is reported as alpha quartz; other two forms of crystalline silica (cristobalite and tridymite) are not detected.

Comments:

~ Estimated values due to detection above the MDL and below the QL with the exception of Firehouse #10 Roof (roof-top) (8/26/05) which is due to low recovery of the field spike.

	Antimony	Barium	Beryllium	Cadmium	Chromium (Total)	Copper	Lead	Manganese	Mercury (Total)	Nickel	Zinc	Silica
Units:	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ug/m3
Northeast Area (street-level)												
8/20/2005	1.57	< 69.7	< 0.697	< 0.697	< 6.97	51.5	11.2	8.96	~ 15.3	3.81	54.2	< 5
8/21/2005	1.85	< 68.9	< 0.689	< 0.689	< 6.89	61.4	10.2	8.6	25.6	5.58	51.9	< 5
8/22/2005	2.72	< 65.1	< 0.651	< 0.651	< 6.51	53.3	24.2	19.8	21.4	3.98	142	< 5
8/23/2005	2.85	< 68.9	< 0.689	< 0.689	< 6.89	49.2	20.3	17.7	22.2	7.69	115	< 5
8/24/2005	3.9	< 71	< 0.71	< 0.71	< 7.1	56	35	24	19.4	7.2	240	< 5
8/25/2005	2.8	< 68	< 0.68	< 0.68	< 6.8	61	28	21	~ 17.5	8.9	160	8
8/26/2005	3.13	< 68.1	< 0.681	< 0.681	< 6.81	71.7	31.1	25.8	~ 10.8	7.38	211	< 5
8/27/2005	1.36	< 67.6	< 0.676	< 0.676	< 6.76	59.1	9.55	10	~ 8.5	< 3.38	40.6	< 5
8/28/2005	1.46	< 68.6	< 0.686	< 0.686	< 6.86	67.4	11	10.7	~ 15.6	3.66	53.9	< 5
8/29/2005	2.0	< 67	< 0.67	< 0.67	< 6.7	83.9	13.5	16.4	< 6.2	4.9	80.7	< 5
8/30/2005	2.4	< 67.4	< 0.67	< 0.67	< 6.7	83.7	37.3	20.7	~ 17.2	5.7	154	< 5
8/31/2005	4.4	< 70.3	< 0.70	< 0.70	< 7.0	94.6	58.4	39.9	~ 18.9	10	494	< 5
9/1/2005	3.2	< 68.1	< 0.68	< 0.68	< 6.8	106	17.4	18.7	~ 15.3	4.1	75.9	< 2
9/2/2005	2.6	< 65.4	< 0.65	< 0.65	< 6.5	103	28	26.5	~ 19.3	5.2	145	< 5

Northwest Side (street-level)

8/19/2005	3.15	< 70.2	< 0.702	< 0.702	< 7.02	49.7	19.4	23.4	~ 12	6.38	58.2	< 5
8/20/2005	1.78	< 70.1	< 0.701	< 0.701	< 7.01	32.8	16.6	8.6	~ 13.7	4	36.4	< 5
8/21/2005	2	< 70.9	< 0.709	< 0.709	< 7.09	42.2	45.1	10	~ 17.9	4.48	36	< 5
8/22/2005	2.22	< 69.9	< 0.699	< 0.699	< 6.99	58.9	63.2	18.2	19.5	3.74	49.2	< 5
8/23/2005	2.67	< 71.4	< 0.714	< 0.714	< 7.14	50.1	56.4	19.8	24.3	9.05	41.1	< 5
8/24/2005	3.0	< 67	< 0.67	< 0.67	< 6.7	84	120	23	~ 15.5	5.9	53	< 5
8/25/2005	2.7	< 71	< 0.71	< 0.71	< 7.1	130	220	44	~ 14.5	14	130	< 5
8/26/2005	2.74	< 70.8	< 0.708	< 0.708	< 7.08	62.1	69.6	30.2	26.7	7.51	106	< 5
8/27/2005	1.62	< 69.6	< 0.696	< 0.696	< 6.96	49.4	37.9	14.2	~ 17	< 3.48	42.3	< 5

Comparison Criteria

Target Air Quality Levels:	<u>5,000</u>	<u>5,000</u>	<u>20</u>	<u>40</u>	<u>600</u>	<u>10,000</u>	<u>1,500</u>	<u>500</u>	<u>300</u>	<u>200</u>	<u>16,000</u>	<u>10</u>
USEPA Site Specific Trigger Levels:	<u>14,000</u>	<u>5,000</u>	<u>200</u>	<u>2,000</u>	<u>600</u>	<u>100,000</u>	<u>5,000</u>	<u>500</u>	<u>3,000</u>	<u>28,000</u>	<u>160,000</u>	<u>10</u>

Footnotes:

Shaded values indicate an exceedance of one or more comparison criteria. The USEPA Site Specific Trigger Level (600 ng/m3) for Hexavalent chromium is used for Chromium (Total). Respirable Silica (crystalline) is reported as alpha quartz; other two forms of crystalline silica (cristobalite and tridymite) are not detected.

Comments:

~ Estimated values due to detection above the MDL and below the QL with the exception of Firehouse #10 Roof (roof-top) (8/26/05) which is due to low recovery of the field spike.

	Antimony	Barium	Beryllium	Cadmium	Chromium (Total)	Copper	Lead	Manganese	Mercury (Total)	Nickel	Zinc	Silica
Units:	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ug/m3

Northwest Side (street-level)

8/28/2005	1.61	< 69	< 0.69	< 0.69	< 6.9	46	39	11.6	~ 12.3	3.96	43.9	< 5
8/29/2005	5.6	< 71.0	< 0.71	< 0.71	13.4	115	171	64.6	~ 15	11.6	550	< 5
8/30/2005	3.8	< 70.2	< 0.70	< 0.70	9.5	159	161	47.2	~ 13.6	12.8	306	< 5
8/31/2005	3.6	< 67.3	< 0.67	< 0.67	12.8	162	300	70.1	~ 19.6	11.1	597	5
9/1/2005	3.4	< 69.2	< 0.69	< 0.69	< 6.9	84.6	45.7	15.9	~ 15.4	4.4	51.5	< 5
9/2/2005	2	< 68.8	< 0.69	< 0.69	< 6.9	109	188	28.5	< 10.9	4.6	122	< 5

Southeast Corner (street-level)

8/19/2005	3.53	< 70.1	< 0.701	< 0.701	< 7.01	95.3	16.7	24.4	~ 12.6	7.02	73.1	< 5
8/20/2005	1.51	< 70	< 0.7	< 0.7	< 7	119	10.5	8.76	~ 12.4	< 3.5	35	< 5
8/21/2005	1.97	< 69.2	< 0.692	< 0.692	< 6.92	102	10.6	8.86	< 6.3	5.58	33.1	< 5
8/22/2005	2.58	< 65.7	< 0.657	< 0.657	< 6.57	68.4	21.4	24.5	17.9	3.62	56.7	< 5
8/23/2005	2.69	< 70.3	< 0.703	< 0.703	< 7.03	60.9	16.2	17.8	22.9	7.23	63.4	< 5
8/24/2005	3.3	< 71	< 0.71	< 0.71	< 7.1	59	18	19	~ 17.7	5.8	100	< 5
8/25/2005	2.4	< 69	< 0.69	< 0.69	< 6.9	68	25	19	< 6.3	7.6	120	< 5
8/26/2005	2.70	< 68.3	< 0.683	< 0.683	< 6.83	139	31.7	31.5	~ 14.2	6.88	146	< 5
8/27/2005	1.40	< 68.2	< 0.682	< 0.682	< 6.82	170	11.6	11.9	~ 15.7	< 3.41	40.4	< 5
8/28/2005	1.45	< 68.6	< 0.686	< 0.686	< 6.86	186	10.9	10.8	~ 16.3	3.85	45.3	< 5
8/29/2005	2.1	< 66.5	< 0.66	< 0.66	< 6.6	160	15.8	20.0	22.2	5.4	85.4	< 5
8/30/2005	2.1	< 68.9	< 0.69	< 0.69	< 6.9	175	39.7	21.9	18.4	5.4	98.4	< 5
8/31/2005	1.9	< 69.2	< 0.69	< 0.69	< 6.9	176	27.4	26.7	~ 17.1	6.2	116	< 5
9/1/2005	3.3	< 69.1	< 0.69	< 0.69	< 6.9	250	19	19	~ 15.3	4.2	49.2	< 5
9/2/2005	2.4	< 67.6	< 0.68	< 0.68	< 6.8	227	28.3	24.9	~ 11.4	4.6	88.4	< 5

Southwest Corner (street-level)

8/19/2005	1.95	< 68.8	< 0.688	< 0.688	< 6.88	42.6	17.6	15.8	~ 9.9	5.22	59.2	< 5
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Comparison Criteria

Target Air Quality Levels:	<u>5,000</u>	<u>5,000</u>	<u>20</u>	<u>40</u>	<u>600</u>	<u>10,000</u>	<u>1,500</u>	<u>500</u>	<u>300</u>	<u>200</u>	<u>16,000</u>	<u>10</u>
USEPA Site Specific Trigger Levels:	<u>14,000</u>	<u>5,000</u>	<u>200</u>	<u>2,000</u>	<u>600</u>	<u>100,000</u>	<u>5,000</u>	<u>500</u>	<u>3,000</u>	<u>28,000</u>	<u>160,000</u>	<u>10</u>

Footnotes:

Shaded values indicate an exceedance of one or more comparison criteria. The USEPA Site Specific Trigger Level (600 ng/m3) for Hexavalent chromium is used for Chromium (Total). Respirable Silica (crystalline) is reported as alpha quartz; other two forms of crystalline silica (cristobalite and tridymite) are not detected.

Comments:

~ Estimated values due to detection above the MDL and below the QL with the exception of Firehouse #10 Roof (roof-top) (8/26/05) which is due to low recovery of the field spike.

	Antimony	Barium	Beryllium	Cadmium	Chromium (Total)	Copper	Lead	Manganese	Mercury (Total)	Nickel	Zinc	Silica
Units:	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ng/m3	ug/m3
Southwest Corner (street-level)												
8/20/2005	1.56	< 70.6	< 0.706	< 0.706	< 7.06	78.1	10.4	8.27	~ 14.1	< 3.53	32.3	< 5
8/21/2005	1.97	< 70.8	< 0.708	< 0.708	< 7.08	115	22.4	9.05	~ 11.9	5.97	39.5	< 5
8/22/2005	2.27	< 73.6	< 0.736	< 0.736	< 7.36	102	48.3	22.7	< 6.7	< 3.68	63	< 5
8/23/2005	= 3.01	< 71.4	< 0.714	< 0.714	< 7.14	= 68.2	= 30.5	= 21.1	24.9	= 7.65	= 52.1	< 5
8/24/2005	3.2	< 70	< 0.70	< 0.70	< 7.0	71	39	28	~ 13.4	6.3	86	< 5
8/25/2005	2.7	< 69	< 0.69	< 0.69	< 6.9	76	69	31	< 6.3	10	130	< 5
8/26/2005	2.52	< 69.5	< 0.695	< 0.695	< 6.95	74.6	37.2	30.7	~ 14.8	7.08	124	< 5
8/27/2005	1.56	< 69.6	< 0.696	< 0.696	< 6.96	58.4	15.4	13.9	~ 13.2	< 3.48	49.5	< 5
8/28/2005	1.59	< 69.6	< 0.696	< 0.696	< 6.96	57.5	9.88	9.13	~ 17.4	3.68	37.8	< 5
8/29/2005	2.2	< 69.4	< 0.69	< 0.69	< 6.9	67.9	22.7	25.3	~ 15.9	5.9	125	< 5
8/30/2005	2	< 70	< 0.70	< 0.70	< 7.0	65.4	42.9	21	~ 16.8	6.3	82	< 5
8/31/2005	1.6	< 70.4	< 0.70	< 0.70	< 7.0	54.9	31.5	25.8	~ 14.5	5.7	94.2	< 5
9/1/2005	3.5	< 69.9	< 0.70	< 0.70	< 7.0	65.6	45.9	17.5	~ 17.4	4.4	57	< 5
9/2/2005	2.4	< 66.9	< 0.67	< 0.67	< 6.7	78.8	72.1	28	~ 14.7	4.8	125	< 5

Comparison Criteria

Target Air Quality Levels:	<u>5,000</u>	<u>5,000</u>	<u>20</u>	<u>40</u>	<u>600</u>	<u>10,000</u>	<u>1,500</u>	<u>500</u>	<u>300</u>	<u>200</u>	<u>16,000</u>	<u>10</u>
USEPA Site Specific Trigger Levels:	<u>14,000</u>	<u>5,000</u>	<u>200</u>	<u>2,000</u>	<u>600</u>	<u>100,000</u>	<u>5,000</u>	<u>500</u>	<u>3,000</u>	<u>28,000</u>	<u>160,000</u>	<u>10</u>

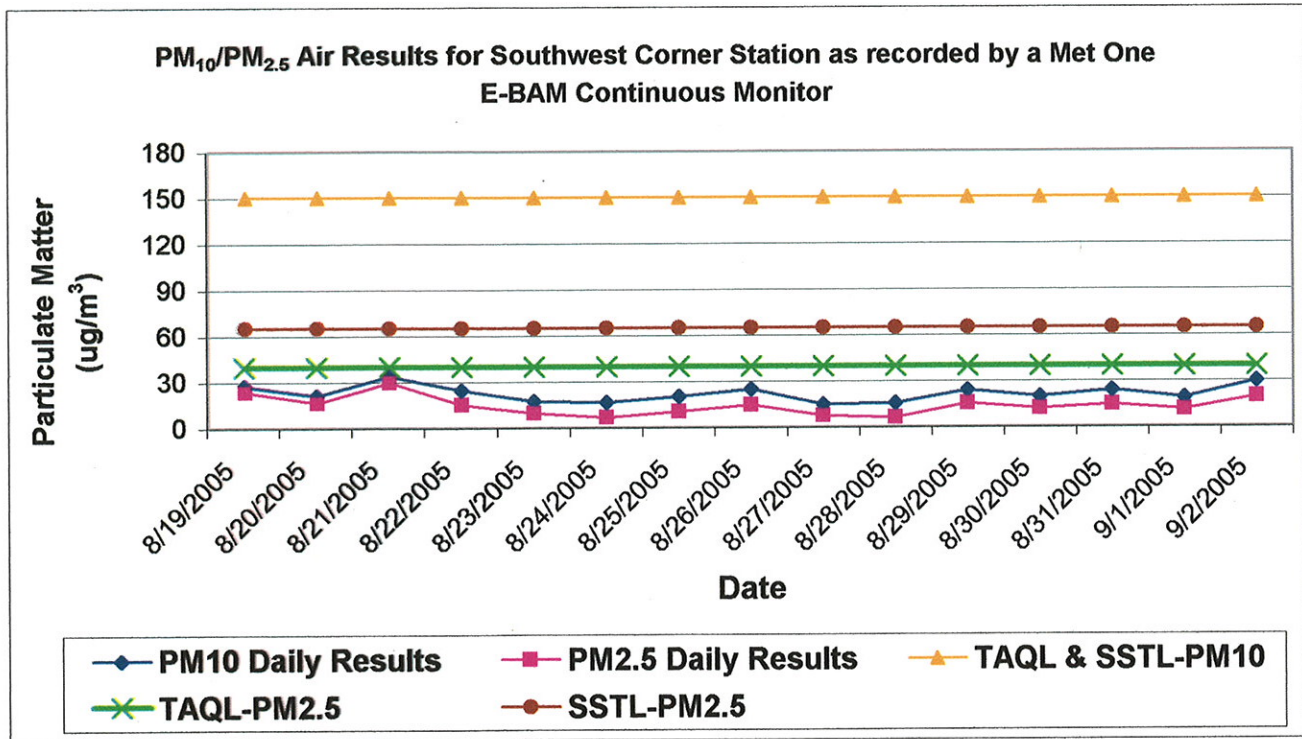
Footnotes:

Shaded values indicate an exceedance of one or more comparison criteria. The USEPA Site Specific Trigger Level (600 ng/m3) for Hexavalent chromium is used for Chromium (Total). Respirable Silica (crystalline) is reported as alpha quartz; other two forms of crystalline silica (cristobalite and tridymite) are not detected.

Comments:

~ Estimated values due to detection above the MDL and below the QL with the exception of Firehouse #10 Roof (roof-top) (8/26/05) which is due to low recovery of the field spike.

Station 1 - Southwest Corner (street level)



Report Summary
 PM10/PM2.5 Results (ug/m³) as recorded by the Met One E-BAM Continuous Monitor
 Background Results - 08/19/05 to 09/02/05

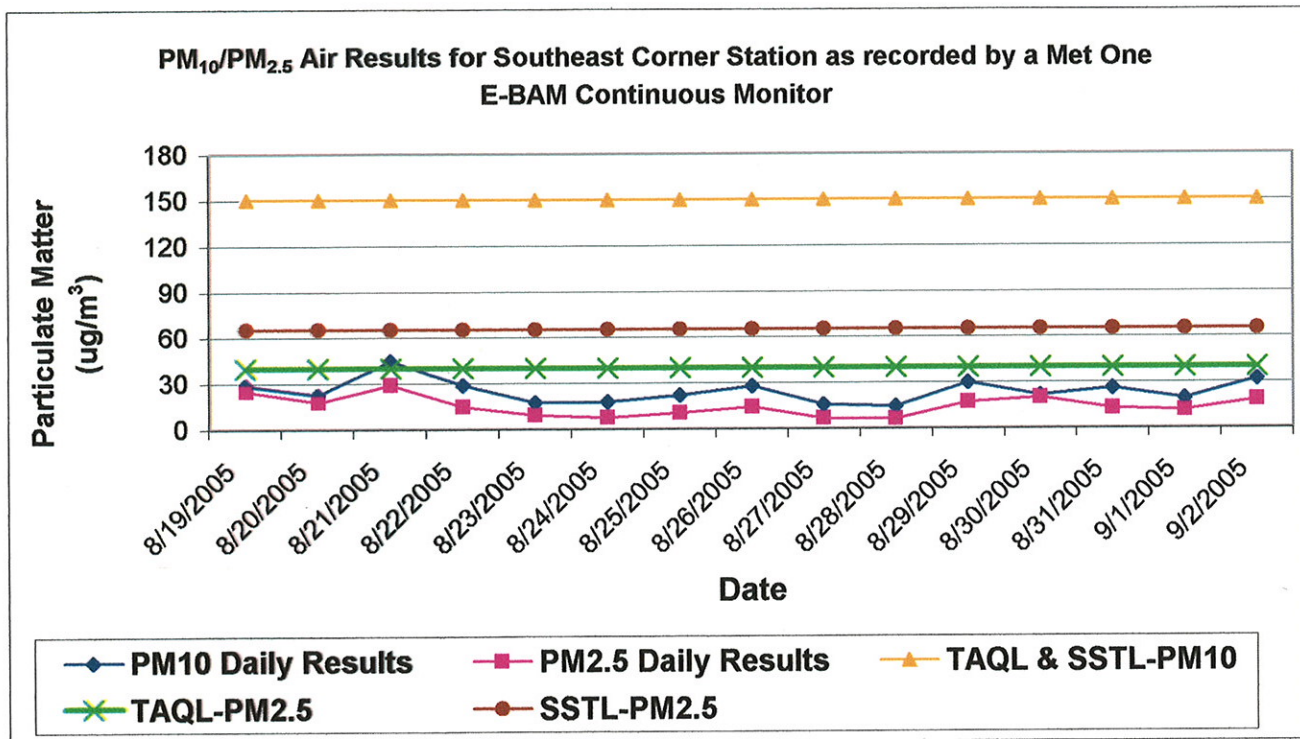
Date	PM ₁₀ Daily Results	PM _{2.5} Daily Results	TAQL & SSTL-PM ₁₀	TAQL-PM _{2.5}	SSTL-PM _{2.5}
8/19/2005	27.47	23.30	150	40	65
8/20/2005	21.07	16.19	150	40	65
8/21/2005	33.84	29.47	150	40	65
8/22/2005	24.65	15.02	150	40	65
8/23/2005	17.31	9.75	150	40	65
8/24/2005	16.75	6.53	150	40	65
8/25/2005	20.33	10.48	150	40	65
8/26/2005	25.11	14.69	150	40	65
8/27/2005	15.07	7.70	150	40	65
8/28/2005	15.88	6.38	150	40	65
8/29/2005	24.21	15.23	150	40	65
8/30/2005	20.18	12.03	150	40	65
8/31/2005	24.38	14.47	150	40	65
9/1/2005	19.32	11.34	150	40	65
9/2/2005	30.12	19.43	150	40	65

TAQL - Target Air Quality Level

SSTL - USEPA Site-Specific Trigger Level

Daily results equal 24-hour averages calculated from 10-minute averages (midnight to midnight).

Station 2 - Southeast Corner (street level)



Report Summary
 PM₁₀/PM_{2.5} Results (ug/m³) as recorded by the Met One E-BAM Continuous Monitor
 Background Results - 08/19/05 to 09/02/05

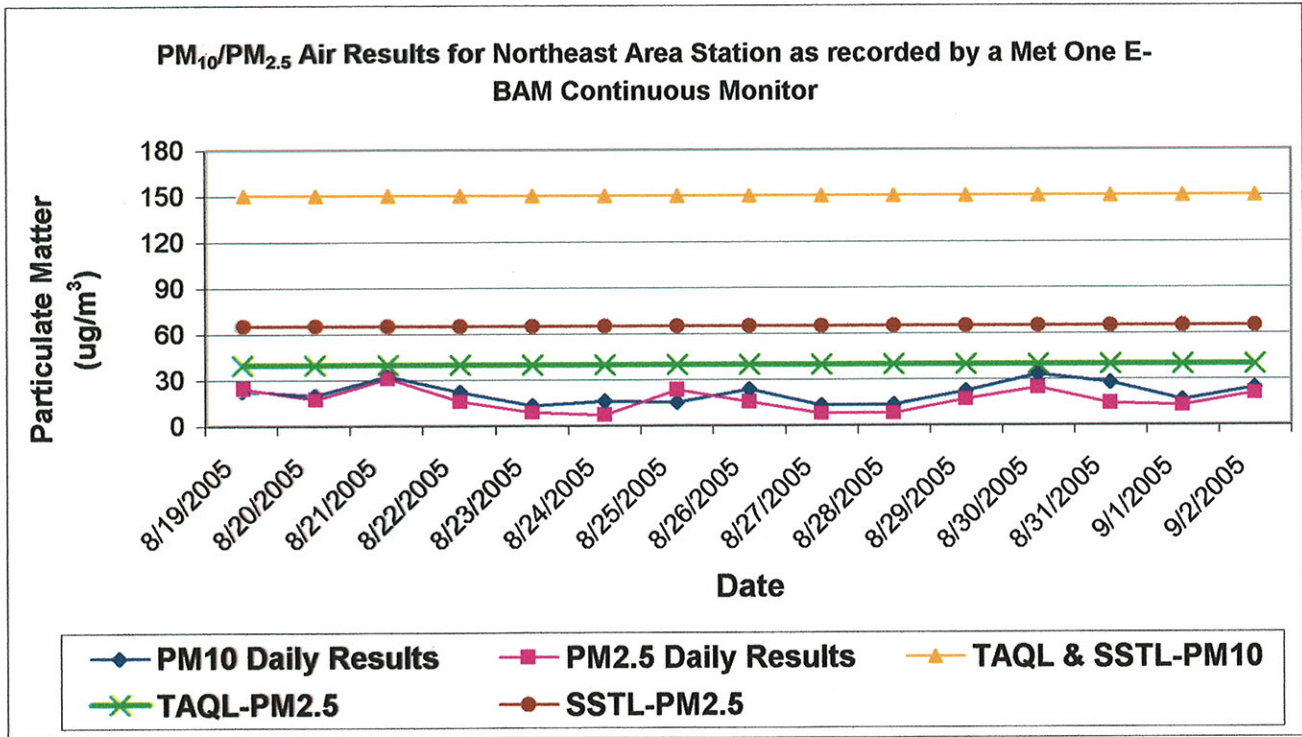
Date	PM ₁₀ Daily Results	PM _{2.5} Daily Results	TAQL & SSTL-PM ₁₀	TAQL-PM _{2.5}	SSTL-PM _{2.5}
8/19/2005	28.82	24.65	150	40	65
8/20/2005	22.47	17.40	150	40	65
8/21/2005	44.62	28.95	150	40	65
8/22/2005	28.73	14.82	150	40	65
8/23/2005	17.62	9.25	150	40	65
8/24/2005	18.03	7.53	150	40	65
8/25/2005	21.93	10.31	150	40	65
8/26/2005	28.09	14.39	150	40	65
8/27/2005	15.66	6.79	150	40	65
8/28/2005	14.68	6.33	150	40	65
8/29/2005	30.13	17.12	150	40	65
8/30/2005	21.83	20.24	150	40	65
8/31/2005	26.40	12.96	150	40	65
9/1/2005	19.78	11.50	150	40	65
9/2/2005	32.03	18.33	150	40	65

TAQL - Target Air Quality Level

SSTL - USEPA Site-Specific Trigger Level

Daily results equal 24-hour averages calculated from 10-minute averages (midnight to midnight).

Station 3 - Northeast Area (street level)



Report Summary
 PM10/PM2.5 Results (ug/m³) as recorded by the Met One E-BAM Continuous Monitor
 Background Results - 08/19/05 to 09/02/05

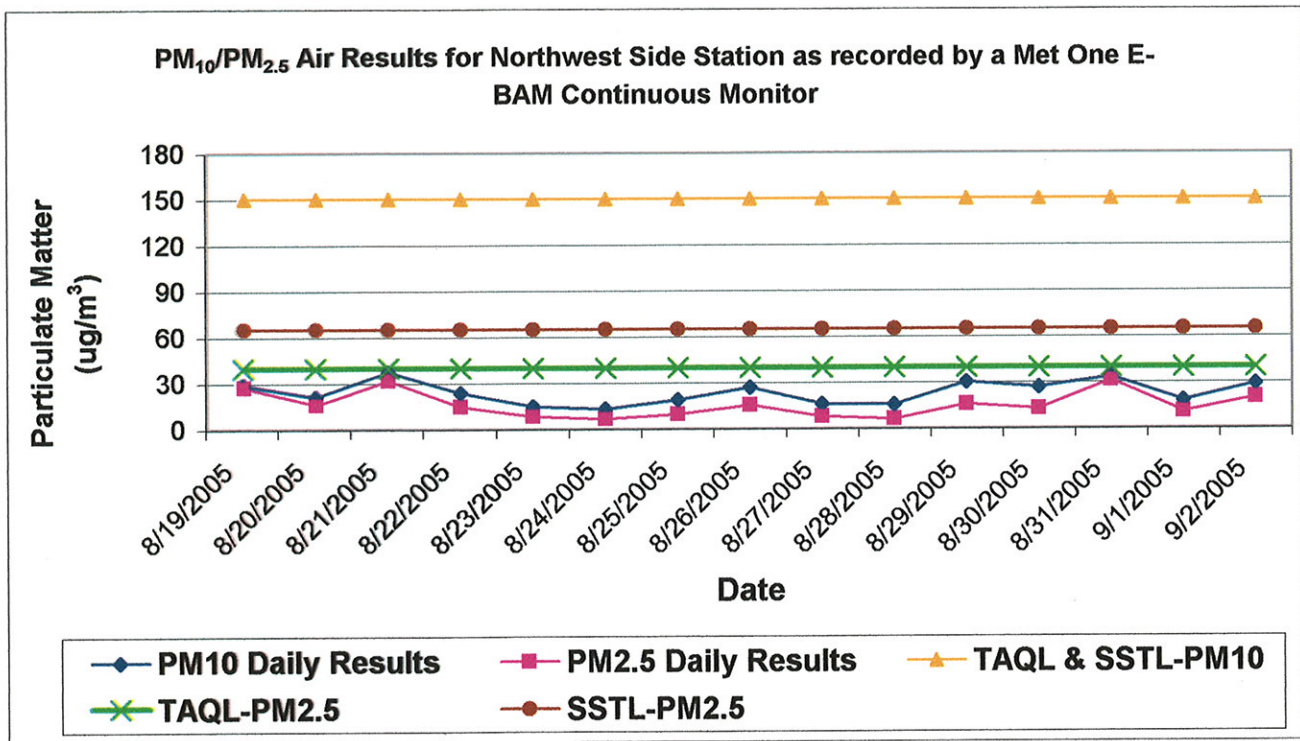
Date	PM ₁₀ Daily Results	PM _{2.5} Daily Results	TAQL & SSTL-PM ₁₀	TAQL-PM _{2.5}	SSTL-PM _{2.5}
8/19/2005	23.12	24.18	150	40	65
8/20/2005	19.86	17.28	150	40	65
8/21/2005	32.57	30.74	150	40	65
8/22/2005	22.19	15.88	150	40	65
8/23/2005	13.30	8.92	150	40	65
8/24/2005	16.36	6.95	150	40	65
8/25/2005	15.45	23.46	150	40	65
8/26/2005	23.66	15.29	150	40	65
8/27/2005	13.13	7.97	150	40	65
8/28/2005	13.80	7.73	150	40	65
8/29/2005	22.64	17.19	150	40	65
8/30/2005	33.53	24.63	150	40	65
8/31/2005	28.03	13.98	150	40	65
9/1/2005	16.62	13.05	150	40	65
9/2/2005	24.53	20.76	150	40	65

TAQL - Target Air Quality Level

SSTL - USEPA Site-Specific Trigger Level

Daily results equal 24-hour averages calculated from 10-minute averages (midnight to midnight).

Station 4 - Northwest Side (street level)



Report Summary
 PM₁₀/PM_{2.5} Results (ug/m³) as recorded by the Met One E-BAM Continuous Monitor
 Background Results - 08/19/05 to 09/02/05

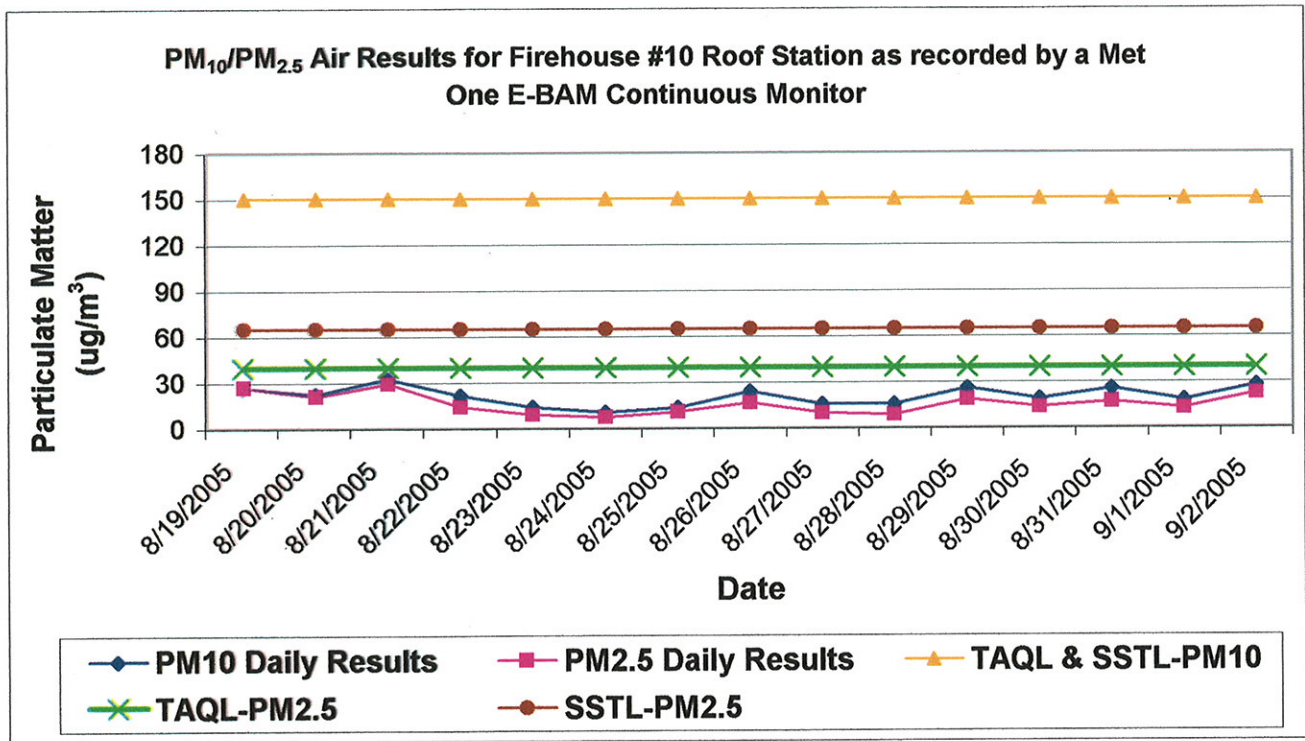
Date	PM ₁₀ Daily Results	PM _{2.5} Daily Results	TAQL & SSTL-PM ₁₀	TAQL-PM _{2.5}	SSTL-PM _{2.5}
8/19/2005	28.96	27.11	150	40	65
8/20/2005	21.31	16.01	150	40	65
8/21/2005	37.30	31.87	150	40	65
8/22/2005	23.55	14.38	150	40	65
8/23/2005	15.08	8.32	150	40	65
8/24/2005	13.51	6.55	150	40	65
8/25/2005	19.36	9.38	150	40	65
8/26/2005	27.08	15.54	150	40	65
8/27/2005	16.09	7.76	150	40	65
8/28/2005	15.87	6.28	150	40	65
8/29/2005	30.55	16.00	150	40	65
8/30/2005	27.17	12.77	150	40	65
8/31/2005	33.72	31.06	150	40	65
9/1/2005	18.42	10.95	150	40	65
9/2/2005	29.34	19.93	150	40	65

TAQL - Target Air Quality Level

SSTL - USEPA Site-Specific Trigger Level

Daily results equal 24-hour averages calculated from 10-minute averages (midnight to midnight).

Station 5 - Firehouse #10 Roof (Rooftop)



Report Summary
 PM₁₀/PM_{2.5} Results (ug/m³) as recorded by the Met One E-BAM Continuous Monitor
 Background Results - 08/19/05 to 09/02/05

Date	PM ₁₀ Daily Results	PM _{2.5} Daily Results	TAQL & SSTL-PM ₁₀	TAQL-PM _{2.5}	SSTL-PM _{2.5}
8/19/2005	26.53	26.75	150	40	65
8/20/2005	22.43	20.89	150	40	65
8/21/2005	32.44	29.24	150	40	65
8/22/2005	21.82	14.26	150	40	65
8/23/2005	14.20	9.36	150	40	65
8/24/2005	10.79	7.57	150	40	65
8/25/2005	13.93	10.63	150	40	65
8/26/2005	24.08	16.67	150	40	65
8/27/2005	16.02	9.95	150	40	65
8/28/2005	15.84	8.62	150	40	65
8/29/2005	26.42	18.75	150	40	65
8/30/2005	19.31	13.65	150	40	65
8/31/2005	25.66	16.97	150	40	65
9/1/2005	18.13	12.73	150	40	65
9/2/2005	27.95	22.37	150	40	65

TAQL - Target Air Quality Level

SSTL - USEPA Site-Specific Trigger Level

Daily results equal 24-hour averages calculated from 10-minute averages (midnight to midnight).

**130 Liberty Street Deconstruction Project
Ambient Air Background Data Precision Study
Summary of Percent Relative Standard Deviations (%RSDs) Per Station and Parameter**

Station Location	ASBESTOS AHERA		ASBESTOS PCME		Dioxin TEQ		PAHs (BAP-equivalent)		Respirable Silica (crystalline)		Total PCBs	
	% RSDs	Average (S/mm2)	% RSDs	Average (f/cm3)	% RSDs	Average (pg/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ug/m3)	% RSDs	Average (ug/m3)
Firehouse #10 Roof (roof-top)	10.05%	19.13	12.84%	0.00078	18.97%	0.04	3.82%	7.32	0.00%	5.00	37.31%	0.13
Northeast Area (street-level)	9.75%	19.00	12.84%	0.00078	38.51%	0.04	4.02%	7.32	26.41%	5.20	40.71%	0.14
Northwest Side (street-level)	9.75%	19.00	13.34%	0.00077	56.71%	0.09	3.03%	7.28	0.00%	5.00	36.95%	0.13
Southeast Corner (street-level)	9.75%	19.00	12.84%	0.00078	21.74%	0.04	47.23%	8.28	0.00%	5.00	36.71%	0.13
Southwest Corner (street-level)	9.75%	19.00	13.34%	0.00077	17.23%	0.04	3.56%	7.18	0.00%	5.00	43.50%	0.14

Station Location	Antimony		Barium		Beryllium		Cadmium		Chromium (Total)		Copper	
	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)
Firehouse #10 Roof (roof-top)	25.48%	2.15	2.34%	68.04	2.43%	0.68	2.43%	0.68	2.43%	6.80	36.30%	48.10
Northeast Area (street-level)	33.52%	2.63	2.41%	68.25	2.48%	0.68	2.48%	0.68	2.48%	6.82	26.14%	72.37
Northwest Side (street-level)	37.67%	2.79	1.88%	69.76	1.94%	0.70	1.94%	0.70	27.47%	7.97	52.16%	82.32
Southeast Corner (street-level)	28.67%	2.36	2.04%	68.78	2.10%	0.69	2.10%	0.69	2.10%	6.88	44.68%	137.04
Southwest Corner (street-level)	27.32%	2.27	2.06%	69.97	2.05%	0.70	2.05%	0.70	2.05%	6.99	25.06%	71.73

Station Location	Lead		Manganese		Mercury (Total)		Nickel		Zinc	
	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)	% RSDs	Average (ng/m3)
Firehouse Roof (roof-top)	35.70%	14.53	27.05%	18.79	36.19%	13.94	36.27%	5.49	36.02%	53.64
Northeast Area (street-level)	58.12%	23.26	43.19%	19.02	34.73%	16.09	34.61%	5.84	82.14%	139.97
Northwest Side (street-level)	82.57%	103.53	67.67%	28.62	27.04%	16.53	51.17%	7.13	125.68%	148.17
Southeast Corner (street-level)	43.00%	20.19	35.22%	19.27	31.90%	15.11	26.90%	5.35	45.08%	76.69
Southwest Corner (street-level)	56.00%	34.32	38.44%	20.48	32.18%	14.13	32.25%	5.58	45.53%	77.11

NOTE: %RSDs and average values based on results from 15 days of sampling

LMDC - 130 Liberty Street Deconstruction Project
Background Phase - Monitoring Data
PM2.5 / PM10 Data Comparison - EBAM vs. FRM Samples^a

PM10	Site	Date	Units	24-hr Average 10-min	RAAS Sample	% difference b,c
	Station 1	19-Aug	ug/m ³	22.7	18.82	-21%
		20-Aug	ug/m ³	20.5	17.5	-17%
		21-Aug	ug/m ³	21.1	30.68	31%
	Station 2	22-Aug	ug/m ³	16.9	24.58	31%
		23-Aug	ug/m ³	13.1	18.74	30%
		24-Aug	ug/m ³	15.8	18.13	13%
	Station 3	25-Aug	ug/m ³	14.3	26.22	46%
		26-Aug	ug/m ³	15.9	11.7	-36%
		27-Aug	ug/m ³	11.5	15.26	25%
	Station 4	28-Aug	ug/m ³	16.1	31.21	49%
		29-Aug	ug/m ³	21.0	37.13	43%
		30-Aug	ug/m ³	23.6	33.54	30%
		31-Aug	ug/m ³	22.3	32.12	31%
		1-Sep	ug/m ³	14.0	27.63	49%
	Average (All Stations)				17.8	24.5
Average (Station 4)				19.4	32.3	40.2%

PM2.5	Site	Date	Units	24-hr Average 10-min	RAAS Sample	% difference b,c
	Station 1	19-Aug	ug/m ³	17.3	31.67	45%
		20-Aug	ug/m ³	16.7	25.02	33%
		21-Aug	ug/m ³	17.9	24.56	27%
	Station 2	22-Aug	ug/m ³	8.6	13.8	38%
		23-Aug	ug/m ³	6.5	9.74	34%
		24-Aug	ug/m ³	6.2	9.53	35%
	Station 3	25-Aug	ug/m ³	10.2	12.96	21%
		26-Aug	ug/m ³	9.6	28.49	66%
		27-Aug	ug/m ³	6.2	5.13	-20%
	Station 4	28-Aug	ug/m ³	9.4	10.76	13%
		29-Aug	ug/m ³	9.6	13.88	31%
		30-Aug	ug/m ³	9.9	10.25	3%
		31-Aug	ug/m ³	11.7	12.17	4%
		1-Sep	ug/m ³	8.0	12.42	36%
	Average (All Stations)				10.6	15.7
Average (Station 4)				9.7	11.9	17.4%

a - Averages for identical 24 hour time periods; same start and stop times.

b - % difference calculated as follows (RAAS - EBAM) / RAAS x 100 = %

c - % difference average values represent absolute numbers